



OF TRUES BENEFITS

Community chest

For several months (or is it years?) my wife has been asking for a blanket chest in which to store out-of-season bedding. Finding a bit of time on my hands recently, I decided I'd make her a solid oak coffer and do the Job properly!

c be honest, there was another bit of an incentive to build this piece. I'd bought an expensive router cutter in readiness for a jumbing job that didn't happen, and I wanted to see how it worked. So with that excuse at the ready, I was able to design this project in a slightly different way.

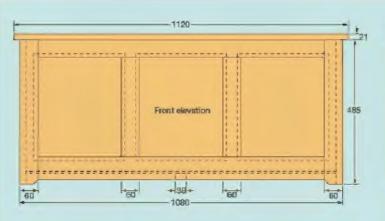
Preparing the parts

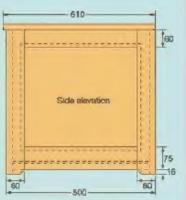
With some thick planks of warey-edged kiln-dried English ceix in hand, I soon had the components marked out, photo 1, I then saved them to nominal sizes, and-realed them (photo 2) and stored them inside the house for a couple of weeks to acclimatise.

Once all the framing and fid components were ready, they went back into the workshop to be planed to size, photo 3, and to have they adjace squared, photo 4. I book some trouble over this, as I wanted to make the commer of the chest out two right-angled components rather than the traditional equipment. To make the lege appear solid, I planned to use a currying router cutter called a mitre look jointer, photo 5.

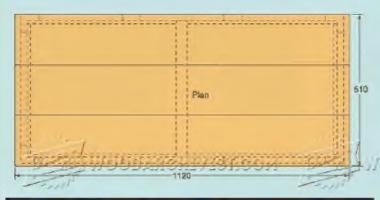
Mittre magic

This forms a tongue and a groove on each mitred edge. You can reassemble these in the flat – at 180° to each other – as a





All Andersonanteetts in million Past





When marking out the various components, take care to avoid knots and splits

BLANKET CHEST CUTTING LIST

Part	Qty	L	W	T
Тор	to make	1120	510	21
Log	8	500	90	21
Long upper sail	2	1080	60	21
Short upper rall	2	500	60	21
Long lower rail	2	1080	75	21
Short lower rail	2	500	75	21
Muntin	4	380	60	21
Front/back panel	6	370	300	8
End panel	2	370	400	8
Base panel (mdf)	1	1200	600	6
Bottom brace	1	500	38	21



Prepare the rough-sawn components, then seed all the seeds to prevent splitting

An allowance has been made on all the lengths for cutting joints.

You will also need some 25mm aq softwood battens to support the base panel, and
two brase built hinges, two screw eyes and a short length of chain to secure the tid.



Any 'misses' that occur duding stufecing can be removed during the thicknessing stage

variation on a tongued-and-grooved edge joint, although you wouldn't buy this relatively expensive outter just to do this! The magic appears when you join them at right angles; then the mitted edges interlock to leave an external corner that looks just like solid wood.

To machine the components on the router table, one piece is passed over the cutter flat to the bed, and the other flat to the fence. A little bit of that and error with some offcuts of the some thickness eventually produced a good joint for me. It was time to machine the eight pieces that would form my lour leas.

As long as the joint is strong imough, there are some adventages in creating a right-angled corner rather than using a square post. Firstly you don't use so much wood and, secondly, the rectangular base panel doesn't need to be notched to fit round the corner posts.

Making the corner joints

I assembled the legs by applying PVA glue to the abutting faces and cramping them up. The critical points here are to make sure that all the excess glue is aqueszed out of the joint, and that each corner is a perfect right angle on the buttered are conce it's cramped up, photo 6.

I'd geleartibly firmined the sight come of cooperage, sightly wider and longer than required. Once the give had gone off I then planed each Leshaped post to its finished width to match the top rails, photo 7, and trimined it to length. Now they were ready to be marked out for their joints, photo 8, which I did with the four leg assemblies laid side by side for accuracy.

Cutting the mortises

I set the width of the mortises to match the trickness of the panels. This meant that when the grooves for the panels were cut the recess for a haunch on the tenons would be formed automatically. Each mortise must be cut parallel to the outside face. So an a mortising machine, the clamping action must force this face against the back tence, photo 9. Cut all the mortises and set the legs saids for now.

Panel Imitations

I didn't have arrough solid oak for the panels, so I decided to try another curning technique. I had a quantity of 4mm thick out-laced mid officute kicking around from another repent job. With oak on one lace only, I decided to stick two pieces logether to make flat penels 6mm thick. I spread a generous quantity of PVA glue on the face



Square the ediges carefully in preparation for making the L-shaped legs



Each two-part leg assembly is glood, cramped up and physical for square



Mark out the mortise hole positions on the four legs in one operation



I planned to use this curaing router curter, called a mitre lock jointer, to assemble the legs



Plane the oversize legs to their finished size and then out mem for length - - - - -



Position each log on the mortiser so that the slots are cut in the same place

of one panel, photo 10, and then rubbed the other sto it. Each panel was then pressed down with heavy weights, but as ther numbers were smited I could tackle only a couple of panels at a time. I needed eight or all...

Before you go any further, now is the time to rouf out the 8mm wide grooves on all the components to accept the edges of these laminated panels. Mark all the edges that need a groove clearly so you don't make a matake, and then out all the grooves on the router table.

A dry assembly

With the legs already mortised, I formed their hing tenons on the ends of the eight top and boltom rails and trimmed them to fit. I could now dry-assemble the frame of the chest and work out the exact positions of the four munities at the front and rear I also marked out the position of the bottom brace that would support the centre of the phywood base panel, and determined its length including an allowance for a tenon on each and.

This done, I cut the mortise holes on the long top and bottom rails and tenoned the



Prepare the panels by gluing one surface and cubbing the other onto it



Dry-essemble the chest and mark the positions of the frame chamfers



Use a simple template to mark out the 45° ends of the chemiers



Cut the panels to size, then assemble the front and back sections



Complete the cheet carcase by fitting the end rule and panels in place



Screw and give softwood battens to the lower rails to support the base papel



Mark the dimensions of the base panel from underposeth and out it to size



Spread glue on all the batters, fit the base panel and weight it down

muntine to fit, along with the bottom brace. Another dry assembly, just to check, also gave me the opportunity to measure the size of the side and and panels. These were out to size, plus an allowance for them to fit into the grooves in the panel learnes, and then everything was cleaned up ready for assembly for real.

Optional chamfers

By the way, if you want to chamfer the edges of the panel trames, now's the time to do it. Mark the positions of the chamfer stop ends on each dry-assambled frame with a spacer to get them all the same, photo 11. Then use another small plastic template to mark the ends of the chamfers of 45°, photo 12. Form the chamfers on the router table and readen the stop ends with a sharp chise!

Assembly time

I glued up the front and rear panel assemblies first, photo 13. The joints went together sweatly without too much pressure, and I checked that the frame was equare overall. The other important thing to check in that the legis haven't gone out of square. Some adjustment to the packing for the seeh cramps might be riscessary to ensure this doesn't happen.

this doesn't happen.

Lativ, these two panel desembles were desired up and were then linked by the end rais with the end panels located in their growes, photo 14. Den't longet to put the bottom brece in as you do the assembly, I nearly cital. Once the glue was dry, the whole for was cleaned up ready for finishing.

Adding the base

Pieces of sim softwood batten were then glued and screwed in place around the inside of the bottom rails, photo 15, to support the rectangular base panel. You can see clearly here how my L-shaped legs avoid the need to notch the comers of the base. I used a piece of 6mm thick mol, photo 18, marking it out from underneath. After cutting d to size I applied glue along all the battens and on the bottom brace, dropped the panel in place and weighted it down for a few hours to secure it, photo 17.

Making up the top

While all this had been going on, I'd made the top out of three pieces of cak. These were planed with square edges, biscout-jointed (photo 16), glued and rubbed together and then aramped up, photo 19. Lader I cleaned off all the arcese glue, applied filler as required and sanded the surface smooth.

With the cheet carcene completed I could work out the finished size of the top, I efficied a strip off one long edge and planed that equine. Then I marked the width required and made the second long edge cut working freehand on the bench saw, photo 20. This edge was again planed inquare; then I trimmed the top off to the required length.

Finishing time

I decided to use an acrylic non-yellowing satin finish on the cheet. This is great stuff to apply, but unfortunately it always raises the grain more than an ell- or polyurathane-based finish. This meant that each cost had to be sanded well back before the next was applied. I applied four coate to the top panel before I was vatisfied with its final appearance; just three poets mode a good job of the body of the chest.

Selecting the hardware

A trip to B.S. O sourced a pook of three decent brass hinges 75mm long, a length of fine brass chair and some strong sorew-in eyes. I fitted the three tringes to the top first, Having marked their positions, I set a straight outler in my router and removed the bulk of the waste to a depth of about 3mm. I cut the rest by hand, then titled and fixed each hinge.

Next I put the fop onto the reain body of the chiest freig pet tiked, and publishmed for where two things on the back rail and removed the top. I then out the ends of the hings recesses using a time saw and a square, photo 21, and chopped out the wasts with a chiest, photo 22. Once the recesses were finished, I placed the top safety on some supports alongside the cheet so I could align the hings with heir recesses and of the in the screws. Pilot holes and a title grease on each screw make sure they go in amountly, photo 23.

Adding the safety chain

The chain, about 500mm long, and the screw-in eyes are essential to stop the top from going too far over the back of the chest and straining the hinges. I opened up each eye by holding the threaded and in a vice and inserting a flat-tip acrewdriver blade into the closed loop. I then fitted one and of the chain into the first eve and squeezed it closed again. This was the eye to go in the top. I worked out its position and screwed it in, meking ours that it was clear of the side rail when the lid closed. I then attached the second eye to the side of the cheat, hooked the chain on and closed the eye, photo 24 Job done, and I was back in my wife's good books!



The plented top is jointed up from a number of proces using biscults



Rub the joints and examp the top up from both sides to keep it flat



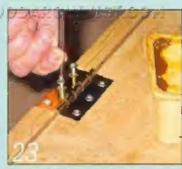


21

Mark the hinge positions and cut the ends of the recesses with a saw



Chop out the waste from each hings recess taking a sharp chied



Applying a little grease to each surevitireed helps them to drive in easily



Fit the eyes and chain to one (or both) aides to stop the top opening too far

